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PATENT ABSTRACTS OF JAPAN

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(30) Priority:	(71) Applicant: SONY CORP
(43) Date of application publication: 09.09.94	(72) Inventor: YASUDA KOICHI KASAMI YUTAKA
(84) Designated contracting states:	(74) Representative:

(54) OPTICAL DISK

(57) Abstract:

PURPOSE: To improve the reproduction sensitivity of an optical disk for ultrahigh resolution reproduction system and to exactly execute an ultrahigh resolution reproduction with good C/N even at the time of executing the reproduction with rather high line speed.

CONSTITUTION: A phase transfer material layer 4 which shows change in reflectance at least after melting is formed on a transparent substrate 1 in which recording pits 2 optically readable are formed according to information signals. A reflecting layer 6 is formed on the phase transfer material layer 4. When the disk is irradiated with reading light, the phase transfer material

layer 4 is partially changed into a liquid phase in the scanned spot of light to change reflectance. The reflecting layer 6 consists of such a material having $\leq 1.0 \text{ J/cm}^2 \text{ Ks}$ thermal conductivity.

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